

REMARKS/ARGUMENTS

This paper is being provided in response to the Office Action dated December 21, 2004 for the above-referenced application. In this response, Applicant has added new Claims 26 and 27, canceled Claims 10-16, and amended Claims 1, 7, 17, and 23 in order to clarify that which Applicant deems to be the claimed invention. Applicant respectfully submits that the new claims and the amendments to the claims are all supported by the originally filed application.

In response to the remarks set forth in the Office Action regarding updating the Cross Reference section on page 1 of the specification, Applicant has amended the Cross Reference section in accordance with the remarks.

In response to the rejection of Claims 1-25 under 35 U.S.C. 112, second paragraph, Applicant has amended the Claims in accordance with remarks set forth in the Office Action. This rejection as applied to Claims 10-16 is moot in view of the cancellation of the Claims 10-16 herein. Applicant notes that in connection with Claim 7, the Office Action indicates that use of the element “the link id” in line 9 has insufficient antecedent basis. Applicant respectfully submits that Claim 7 as originally filed has proper antecedent basis for this element. The determining step of Claim 7 includes a first use of “a link id” followed by the occurrence of “the link id”.

In view of the foregoing remarks and amendments, Applicant respectfully requests that the rejection be reconsidered and withdrawn.

The rejection of Claims 10-13 under 35 U.S.C. § 102(b) as being unpatentable over Pouban et al. (U.S. Patent No. 4,104,718, hereinafter referred to as “Pouban”) is moot in view of the cancellation of Claims 10-13 herein. Accordingly, Applicant respectfully requests that the rejection be withdrawn.

The rejection of Claims 1, 5-7, 17, and 21-23 under 35 U.S.C. § 103(a) as being unpatentable over Pouban is hereby traversed and reconsideration thereof is respectfully requested. Applicant respectfully submits that Claims 1, 5-7, 17, and 21-23, as amended herein, are patentable over the cited reference.

Claim 1, as amended herein, recites a method of providing multiple jobs for a device associated with a communication device, comprising: providing a plurality of device records, wherein each of the device records corresponds to the device that is associated with the communication device; providing a plurality of job records for at least one of the device records, wherein each of the job records contains at least some information that is also provided in the corresponding one of the device records; and linking the job records and the corresponding device record so that any one of the job records may be accessed by first accessing the corresponding one of the device records. Claims 2-6 depend from Claim 1.

Claim 7, as amended herein, recites a method of facilitating remotely accessing device information associated with a device, comprising: creating a plurality of jobs for the device, wherein each of the jobs relates to at least a portion of tasks associated with remotely accessing

device information; associating the jobs with a device record for the device; and determining a link id for each of the jobs, wherein the link id uniquely identifies I/O operations for the job.

Claim 17, as amended herein, recites computer software that provides multiple jobs for a device associated with a communication device, comprising: executable code that provides a plurality of device records, wherein each of the device records corresponds to the device that is associated with the communication device; executable code that provides a plurality of job records for at least one of the device records, wherein each of the job records contains at least some information that is also provided in the corresponding one of the device records; and executable code that links the job records and the corresponding device record so that any one of the job records may be accessed by first accessing the corresponding one of the device records. Claims 18-22 depend from Claim 17.

Claim 23, as amended herein, recites computer software that facilitates remotely accessing device information associated with a device, comprising: executable code that creates a plurality of jobs for the device, wherein each of the jobs relates to at least a portion of tasks associated with remotely accessing device information; executable code that associates the jobs with a device record for the device; and executable code that determines a link id for each of the jobs, wherein the link id uniquely identifies I/O operations for the job.

Poublan discloses an I/O related CPU instruction, a CONNECT instruction. When a procedure which has control of the CPU needs to perform an I/O operation, a CONNECT instruction is executed as part of the procedure to initiate the I/O operation on a particular device.

Figure 4 discloses use of the CONNECT instruction with an input-output controller (IOC) table 96, a physical channel table (PCT) 97, and a logical channel table (LCT) 98. The LCT includes an entry with device-specific information which is accessed using the IOC, the PCT, and the LCT in combination with various indices into these tables. (Col. 10, Line 51-Col. 11, Line 20). Pouban discloses use of a process control block (PCB) which is a storage area containing status information for a given process. The PCB serves as a temporary storage area for information necessary to start or restart a process without any information loss. (Col. 12, Lines 5-24). Pouban's Figure 5 includes an area of main memory accessible via a boundary address register (BAR). Included in Figure 5 is a J-table which includes an entry for every job step. Work to be performed by the operating system may be defined externally by a series of job steps via a job control language. A job step is a unit of work to which hardware resources are allocated. Typically, a job step consists of several tasks. The user-visible concepts of task and job step are represented within the system as a process and process group, respectively. (Col. 11, Line 56-Col. 12, Line 2; Col. 12, Lines 5-36). The addresses of information needed by a given process are developed by a sequence of directory retrievals, beginning with the absolute address contained in the BAR 11, through the system base 110, the J and P tables 121 and 123, to yield the absolute address of that process' PCB as shown in Figure 6. The address of needed data is calculated using contents of a base register 131, a displacement value specified in the operand field of an instruction and optionally the contents of an index register 137 also specified in the instruction. Addressing is a two step operation. First the address syllable in the user's instruction is a logical address and is used by the firmware to develop the "effective" address. Then this "effective" address is used to develop an absolute memory address. (Col. 13, Lines 12-48).

Poublan discloses that a file is assigned to a (job) step by reserving the name of the file in the Known Objects Table (KNOT). Each entry in the KNOT points to a more detailed described contained in another file called the Known Objects Description Table (KNODET). The relationship between KNOT, KNODET and certain information structures within the Job Control Structure (JCS) is shown in Figure 43. (Col. 55, Line 49-Col. 56, Line 57). Figure 19 includes a sequence of steps executed during file assignment. An Assign File Table (AFT) is read entry by entry. The AFT is located in a subfile of the Job Control Structure which contains an entry for each internal file name and index to which will be assigned either devices, devices with a file, or devices with volumes. When the ASSIGN FILE procedure is called, a data structure called STEPINF is disclosed as an input parameter which contains information about the process group (step) on behalf of which the assignment is being requested. Figure 21 defines the STEPINF structure as including pointers to the user communication areas (UCAs) of the executable job control file (JCFYUCA) and the system report (SYSREPUCA). (Col. 40, Line 5-Col. 41, Line 45).

Claim 1, as amended herein, is neither disclosed nor suggested by Poublan in that Poublan neither discloses nor suggests *a method of providing multiple jobs for a device associated with a communication device, comprising: providing a plurality of device records, wherein each of the device records corresponds to the device that is associated with the communication device; providing a plurality of job records for at least one of the device records, wherein each of the job records contains at least some information that is also provided in the corresponding one of the device records; and linking the job records and the*

corresponding device record so that any one of the job records may be accessed by first accessing the corresponding one of the device record, as set forth in Claim 1.

As support for the step of *providing a plurality of job records for at least one of the device records, wherein each of the job records contains at least some information that is also provided in the corresponding one of the device records*, the Office Action cites Col. 40, Lines 1-19 of Pouban which disclose that files may be assigned to job steps, and a Job Control Structure (JCS) includes an Assign File Table (AFT) comprising an entry for each internal file name and index. The foregoing passage appears to disclose that a JCS may include one or more entries for internal files that may be associated with devices rather than any disclosure or suggestion of providing a plurality of job records for a device record.

As support for the step of *linking the job records and the corresponding device record so that any one of the job records may be accessed by first accessing the corresponding one of the device records*, the Office Action cites Col. 41, Lines 43-45 of Pouban which disclose that an input parameter, STEPINF, is provided to the ASSIGN FILE procedure. Included in the input parameter STEPINF are pointers to the user communication areas and the system report. Applicant fails to see how providing the pointers in an input parameter as disclosed in the foregoing passage of Pouban disclose or suggest linking job records with the corresponding device record.

Additionally, the Office Action states that Pouban fails to explicitly teach that the job records contain information provided in the corresponding one of the device records but that this

would be obvious to one of ordinary skill in the art to have job records contain information also provided in common with a device record because it would justify the job record belonging with the device record. Applicant respectfully submits that it is not obvious to include a common portion of information in both a device record and each job record provided for the device record. Just because a device record and a job record may be grouped together does not make it obvious, or otherwise imply, that a common portion of information is included in both records. The fact that both records are associated or grouped, without more, may suggest that information would not be replicated in both records, for example, to reduce storage and memory requirements.

Accordingly, in view of the foregoing, Applicant respectfully submits that Poublan neither discloses nor suggests at least *a method of providing multiple jobs for a device associated with a communication device, comprising: ... providing a plurality of job records for at least one of the device records, wherein each of the job records contains at least some information that is also provided in the corresponding one of the device records; and linking the job records and the corresponding device record so that any one of the job records may be accessed by first accessing the corresponding one of the device record*, as set forth in Claim 1.

Poublan also neither discloses nor suggests Claim 17 for reasons similar to those set forth regarding Claim 1 in that Poublan neither discloses nor suggests at least *computer software that provides multiple jobs for a device associated with a communication device, comprising:... executable code that provides a plurality of job records for at least one of the device records, wherein each of the job records contains at least some information that is also provided in the*

corresponding one of the device records; and executable code that links the job records and the corresponding device record so that any one of the job records may be accessed by first accessing the corresponding one of the device records, as set forth in Claim 17.

Poublan also neither discloses nor suggests Claim 7, as amended herein, in that Poublan neither discloses nor suggests *a method of facilitating remotely accessing device information associated with a device, comprising: creating a plurality of jobs for the device, wherein each of the jobs relates to at least a portion of tasks associated with remotely accessing device information; associating the jobs with a device record for the device; and determining a link id for each of the jobs, wherein the link id uniquely identifies I/O operations for the job*, as set forth in Claim 7. Poublan appears silent with regard to any disclosure or suggestion of remotely accessing device information, and creating jobs related to tasks associated with the remotely accessing of device information. For reasons set forth above regarding Claim 1, Poublan neither discloses nor suggests associating the jobs with a device record. Further, Poublan discloses at Col. 10, Line 65-Col. 11, Line 13, the use of tables, and pointers and indices into tables to access device specific information, but appears silent with regard to any suggestion of a link id that uniquely identifies I/O operations for the job.

For reasons similar to those regarding Claim 7, Applicant's Claim 23 is also neither disclosed nor suggested by Poublan in that Poublan neither discloses nor suggests *computer software that facilitates remotely accessing device information associated with a device, comprising: executable code that creates a plurality of jobs for the device, wherein each of the jobs relates to at least a portion of tasks associated with remotely accessing device*

information; executable code that associates the jobs with a device record for the device; and executable code that determines a link id for each of the jobs, wherein the link id uniquely identifies I/O operations for the job, as set forth in Claim 23.

In view of the foregoing, Applicant respectfully requests that the rejection be reconsidered and withdrawn.

The rejection of Claims 2-4, 8-9, 14-16 and 24-25 under 35 U.S.C. § 103(a) as being unpatentable over Pouban in view of James (U.S. Patent No. 6,035,376, hereinafter referred to as “James”), is hereby traversed and reconsideration thereof is respectfully requested. Applicant respectfully submits that this rejection as applied to Claims 14-16 is moot in view of the cancellation of Claims 14-16 herein. Applicant respectfully submits that Claims 2-4, 8-9 and 24-25, as amended herein, are patentable over the cited references.

Claims 2-4 depend from Claim 1. Claims 8-9 depend from Claim 7. Claims 18-20 depend from Claim 17. Claims 24-25 depend from Claim 23. For reasons set forth above, Claims 1, 7, 17, and 23 are neither disclosed nor suggested by Pouban. For reasons set forth below, Claims 1, 7, 17 and 23, and claims that depend therefrom, are neither disclosed nor suggested by combining Pouban with James.

Pouban is summarized above.

James discloses a system for converting between the states of fresh and owned in a multiprocessor computer system comprising a memory line with a structure including a first field for storing a memory state, a second field for storing an address and a third field for storing data. (See Abstract). James relates to a system and method for maintaining cache coherence that is even driven and changes the state of the caches and memories based on the current memory state and a head of a list of corresponding cache entries. (Col. 1, Lines 17-23).

Claim 1, as amended herein, is neither disclosed nor suggested by the references, taken separately or in combination, in that the references neither disclose nor suggest *a method of providing multiple jobs for a device associated with a communication device, comprising: ... providing a plurality of job records for at least one of the device records, wherein each of the job records contains at least some information that is also provided in the corresponding one of the device records; and linking the job records and the corresponding device record so that any one of the job records may be accessed by first accessing the corresponding one of the device record*, as set forth in Claim 1. For reasons set forth above, Pouban does not disclose or suggest at least the foregoing recited features of Claim 1. James appears silent regarding any disclosure or suggestion of the foregoing recited features of Claim 1. Thus, combining Pouban with James does not overcome the deficiencies of Pouban with regard to the foregoing features of Applicant's Claim 1.

For reasons similar to those set forth regarding Claim 1, Applicant's Claim 17 is also neither disclosed nor suggested by the references in that the references neither disclose nor suggest at least *computer software that provides multiple jobs for a device associated with a*

communication device, comprising:... executable code that provides a plurality of job records for at least one of the device records, wherein each of the job records contains at least some information that is also provided in the corresponding one of the device records; and executable code that links the job records and the corresponding device record so that any one of the job records may be accessed by first accessing the corresponding one of the device records, as set forth in Claim 17.

Applicant's Claim 7 is neither disclosed nor suggested by the references, taken separately or in combination, in that the references neither disclose nor suggest *a method of facilitating remotely accessing device information associated with a device, comprising: creating a plurality of jobs for the device, wherein each of the jobs relates to at least a portion of tasks associated with remotely accessing device information; associating the jobs with a device record for the device; and determining a link id for each of the jobs, wherein the link id uniquely identifies I/O operations for the job*, as set forth in Claim 7. For reasons set forth above, Pouban neither discloses nor suggests the foregoing features of Claim 7. James appears silent with regard to any disclosure or suggestion of the foregoing features of Claim 7. Thus, combining Pouban with James does not overcome the deficiencies of Pouban with regard to Claim 7.

For reasons similar to those regarding Claim 7, Applicant's Claim 23 is also neither disclosed nor suggested by Pouban in that Pouban neither discloses nor suggests *computer software that facilitates remotely accessing device information associated with a device, comprising: executable code that creates a plurality of jobs for the device, wherein each of the*

jobs relates to at least a portion of tasks associated with remotely accessing device information; executable code that associates the jobs with a device record for the device; and executable code that determines a link id for each of the jobs, wherein the link id uniquely identifies I/O operations for the job, as set forth in Claim 23.

In view of the foregoing, Applicant respectfully requests that the rejection be reconsidered and withdrawn.

Applicant respectfully submits that new Claim 26 and 27 are also patentable over the cited art.

Based on the above, Applicant respectfully requests that the Examiner reconsider and withdraw all outstanding rejections and objections. Favorable consideration and allowance are earnestly solicited. Should there be any questions after reviewing this paper, the Examiner is invited to contact the undersigned at 617-248-4042.

Respectfully submitted,
CHOATE, HALL & STEWART



Anne E. Saturnelli
Registration No. 41,290

Patent Group
CHOATE, HALL & STEWART
Exchange Place
53 State Street
Boston, MA 02109-2804
Tel: (617) 248-5000
Fax: (617) 248-4000

Date: January 20, 2005